



B.Sc I Year (NEP) Degree Examination, March/April - 2022

CHEMISTRY (OEC)

Paper No. OEC - 1 - Chemistry in daily life

Time : 3 Hours

Maximum Marks : 60

Instruction : Answer *all* Sections.

SECTION - A

1. Answer the following sub-questions, each sub-section carries **one** mark. **10x1=10**
- (a) What are milk products ?
 - (b) Mention the composition of milk.
 - (c) What is an adulteration ?
 - (d) Define preservatives.
 - (e) Write the structure of vitamin-C.
 - (f) What is rancidity ?
 - (g) What are fuel cells ?
 - (h) Mention any two applications of primary cell.
 - (i) What are polymers ?
 - (j) What are carbohydrates ?

SECTION - B

Answer **any four** of the following questions, each carries **five** marks. **4x5=20**

- 2. Discuss the analysis of caffeine in Coffee and Tea.
- 3. Write a note on analysis of pesticide residue in food.
- 4. Discuss the classification and nomenclature of vitamins.
- 5. Write a note on basics of solar energy.
- 6. Mention the importance of minerals and fats. With example.
- 7. Discuss the strategies for the development of eco-friendly polymen.



SECTION - C

Answer **any three** of the following questions, each question carrying **ten** marks.

3x10=30

- 8.** (a) How do you determine methyl alcohol in alcoholic beverages. **6**
(b) Discuss the fat content in milk and butter. **4**
- 9.** (a) What are artificial sweetness ? Discuss artificial sweetness by taking saccharin, dulcin as an example. **6**
(b) Write a note on food preservatives with example. **4**
- 10.** (a) What are soaps and detergents ? Discuss their classification. **6**
(b) Discuss the composition of oils and fats. **4**
- 11.** (a) Explain principle and applications of primary and secondary batteries. **6**
(b) Write a note on fuel cells. **4**
- 12.** (a) Discuss the requirement of balanced and nutritious food in daily life. **6**
(b) Give the applications of polymers : **4**
(i) Automobile industries
(ii) Medical field

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